

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS PO Box 1450 Alexasofan, Virginia 22313-1450 www.repto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/685,215	10/14/2003	William A. Welsh	67008-156PUS1;5691	4100
26096 7590 01/04/2011 CARLSON, GASKEY & OLDS, P.C.			EXAMINER	
400 WEST MAPLE ROAD			JOHNSON, VICKY A	
SUITE 350 BIRMINGHA	M. MI 48009		ART UNIT	PAPER NUMBER
			3656	
			MAIL DATE	DELIVERY MODE
			01/04/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)					
10/685,215	WELSH, WILLIAM A.					
Examiner	Art Unit					
Vicky A. Johnson	3656					

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -- Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

- Exte	CHEVER IS LONGER, FROM THE I	MAILING DATE OF THIS as of 37 CFR 1.136(a). In no event, I		,				
- If NO - Failu Any	r SIX (6) MONTHS from the mailting date of this com operiod for reply is specified above, the maximum ure to reply within the set or extended period for rep reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	statutory period will apply and will ex ly will, by statute, cause the applicati	pire SIX (6) MONTHS from the mailing date of this communication to become ABANDONED (35 U.S.C. § 133). unication, even if timely filed, may reduce any	ation.				
Status								
1)🛛	Responsive to communication(s) fi	led on 18 November 2010	<u>2</u> .					
2a)	This action is FINAL.	2b) This action is non-	-final.					
3)	formal matters, prosecution as to the merits	s is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims							
4) 🛛	Claim(s) 11-36 is/are pending in th	e application.						
	4a) Of the above claim(s) 11-21,23,24 and 28 is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)🛛	6) ☐ Claim(s) <u>22,25-27 and 29-36</u> is/are rejected.							
	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restr	iction and/or election requ	uirement.					
Applicat	ion Papers							
9)	The specification is objected to by t	he Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any obj	ection to the drawing(s) be h	neld in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected	to by the Examiner. Note	the attached Office Action or form PTO-152	2.				
Priority	under 35 U.S.C. § 119							
12)	Acknowledgment is made of a clain	n for foreign priority under	35 U.S.C. § 119(a)-(d) or (f).					
a)	☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority	y documents have been re	eceived.					
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* 5	See the attached detailed Office acti	on for a list of the certified	d copies not received.					
Attachmer	**							
	ce of References Cited (PTO-892) se of Draftsparson's Fatent Drawing Review		Interview Summary (PTO-413) Paper No(s)N/all Date.					
	mation Disclosure Statement(s) (PTO/SB/08	5)	Notice of Informal Patent Application					
Pape	er No(s)/Mail Date	6)	☐ Other:					

Page 2

Application/Control Number: 10/685,215

Art Unit: 3656

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 10, 2010 has been entered.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 22, 25-27, and 29-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ueda (JP 61164109) in view of Perry (UD 6,813,973).

Ueda et al disclose a vibration isolation system for reducing vibrations in a rotating system rotatable about an axis of rotation, comprising: a multiple of masses (21a, 21b) disposed about an axis of rotation of a rotating system (see Fig 6); a drive system to independently spin each of said multiple of masses about said axis of rotation at an angular velocity (pg 12 lines 3-6); and a control system in communication with said

Application/Control Number: 10/685,215

Art Unit: 3656

drive system to control the angular velocity of each of said multiple of masses to reduce vibrations generated by of the rotating system (og 5 lines 1-8).

Ueda does not disclose the multiple of masses radially offset from said axis of rotation from the axis of rotation.

Perry teaches the use of a multiple of masses (38, 52) radially offset from said axis of rotation from the axis of rotation (35).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Ueda to include the rotatable masses as taught by Perry in order to increase the adjustability of the balance.

Response to Arguments

Some further comments regarding the applicant's comments are deemed appropriate.

The applicant argues that the rejection based on the combination of Ueda in view of Perry fails to meet the limitations of the claims because the Ueda reference does not "spin" the masses. The limitation "spin" is being interpreted as "to revolve or rotate rapidly, as the earth or a top." The Ueda reference therefore meets the limitations of the claims.

It is also argued that the combination of the references teaches away from the claimed invention. It is disagreed. Both references teach how to isolate or damp vibrations. The Perry reference is cited in order to teach a radial arm (50.39) radially offset from the axis of rotation (35), in order to increase the adjustability of the balance

of the system. The Ueda reference teaches the control system, the drive system, and the multiple of masses (21a, 21b) disposed about an axis of rotation of a rotating system (see Fig 6).

The Perry reference is further argued against because it is argued that the balance components are rotationally fixed. As discussed above, the Perry reference is cited in order to teach a radial arm (50.39) radially offset from the axis of rotation (35), in order to increase the adjustability of the balance of the system.

Applicant's remarks have been accorded due consideration, however, they are not deemed fully persuasive.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vicky A. Johnson whose telephone number is (571) 272-7106. The examiner can normally be reached on Monday-Friday (7:00a-3:30p).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/685,215 Page 5

Art Unit: 3656

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Vicky A. Johnson/ Primary Examiner, Art Unit 3656